

Title (en)

sensor system for a chip forming machine tool

Title (de)

Sensorsystem für eine spanabhebende Werkzeugmaschine

Title (fr)

système de capteur pour machines-outils d'usinage par enlèvement de copeaux

Publication

EP 1650540 A2 20060426 (DE)

Application

EP 05022011 A 20051010

Priority

DE 102004051145 A 20041020

Abstract (en)

The system has a power-supply unit (101) inductively providing energy for supply of a sensor arrangement (110) of a cutting machine tool out of magnetic alternating field. The energy supplying the field is operated at an operating point that is optimal for transmission. A generating unit for the magnetic alternating field comprises a pair of coils. An outer field coil and the coils are arranged in parallel to each other. An independent claim is also included for a cutting machine tool with a sensor system.

IPC 8 full level

G01L 5/00 (2006.01); **B23Q 17/09** (2006.01)

CPC (source: EP US)

B23Q 1/0009 (2013.01 - EP US); **B23Q 17/0961** (2013.01 - EP US); **B23Q 17/0966** (2013.01 - EP US); **B23Q 17/098** (2013.01 - EP US); **G01L 5/0061** (2013.01 - EP US)

Cited by

CN105500111A; EP2246680A3; CN109249042A; DE102017110647A1; US8504177B2; WO2011018216A1; WO2018095472A1; WO2023041784A1; WO2016079205A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1650540 A2 20060426; **EP 1650540 A3 20061115**; DE 102004051145 A1 20060427; DE 102004051145 B4 20150917; DE 102004051145 C5 20210318; US 2006085092 A1 20060420; US 7289873 B2 20071030

DOCDB simple family (application)

EP 05022011 A 20051010; DE 102004051145 A 20041020; US 25237805 A 20051018